

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A biomolecule (excluding a nucleic acid) ~~to be immobilized and used for a method of detecting a substance capable of interacting with the biomolecule using the immobilized biomolecule~~, wherein the biomolecule is bound to a compound ~~having comprising~~ a group capable of binding onto a substrate ~~for immobilizing a biomolecule to which the biomolecule is immobilized~~ or a carrier provided on the substrate.
2. (Currently amended) ~~A-The biomolecule according to Claim 1, wherein the compound having a group capable of binding onto a substrate for immobilizing a biomolecule or a carrier provided on the substrate is a polymer that includes comprises a compound having an unsaturated bond.~~
3. (Currently amended) ~~A-The biomolecule according to Claim 2, wherein the polymer has an average degree of polymerization of 2 or more to 1,000,000 or less.~~
4. (Currently amended) ~~A-The biomolecule according to Claim 2, wherein a monomer constituting the polymer is a nucleotide.~~
5. (Currently amended) ~~A-The biomolecule according to Claim 1, wherein the compound having a group capable of binding onto a substrate for immobilizing a biomolecule or a carrier provided on the substrate is a compound havingcomprises at least one photoreactive group, and wherein the photoreactive group is selected from compounds each having a nitrene precursor, carbene precursor, or ketone group.~~
6. (Original) A biomolecule according to Claim 1, wherein the biomolecule is selected from a protein, sugar, antigen, antibody, peptide, and enzyme.
7. (Original) A substrate for immobilizing a biomolecule, comprising: a substrate for immobilizing a biomolecule; and a biomolecule according to any one of Claims 1 to 6 immobilized on the substrate.

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8. (Original) A method of producing a substrate for immobilizing a biomolecule, comprising: contacting the biomolecule according to any one of Claims 1 to 6 with a substrate for immobilizing a biomolecule; and irradiating a contact portion with an electromagnetic ray.

9. (Currently amended) A method of detecting a substance ~~capable of interacting with an immobilized biomolecule using the immobilized biomolecule, wherein which comprises~~ contacting the substance with the substrate for immobilizing a biomolecule according to Claim 7 ~~is used.~~